



**Patent**

Docket Number: AMG-00105.P.1.1-US

UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Divita et al.

Application No.: 09/915,914

Filed: July 26, 2001

For: PEPTIDE-MEDIATED  
DELIVERY OF MOLECULES INTO  
CELLS

Examiner: To be determined

Art Unit: To be determined

Assistant Commissioner for Patents  
Washington D.C. 20231

Sir:

**INFORMATION DISCLOSURE STATEMENT**

Applicant submits a list of references listed on the attached Form PTO 1449, copies of which are enclosed.

This statement is being filed before the mailing of a First Office Action on the merits under 37 C.F.R. § 1.97(a)(3). Accordingly, no fee under 37 C.F.R. § 1.17(p) is deemed necessary.

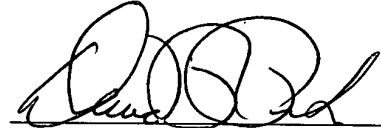
Please apply any charges not covered, or any credits, to Deposit Account number 501321 in the name of David R. Preston & Associates, having Customer Number 24232.

Respectfully submitted,

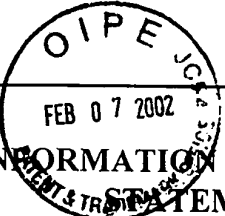
Date:

January 25, 2002

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A handwritten signature in black ink, appearing to read 'David R. Preston', written over a horizontal line.

David R. Preston  
Reg. No. 38,710

 <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use several sheets if necessary)	Docket Number: AM-00105.P.1.1-US	Patent Number: 09/915,914
	Applicant: Divita et al.	
	Filing Date: July 26, 2001	Group Art Unit: To be determined

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	P1	5,270,163	12/14/93	Gold et al.			
	P2	5,747,253	05/05/98	Ecker et al.			

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	Translation	
							YES	NO
	F1	WO 00/18778	04/06/00	US				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
EXAMINER INITIALS		CITATION
	D1	Arar et al. (1995), "Synthesis and Antiviral Activity of Peptide-Oligonucleotide Conjugates Prepared by Using N-(Bromoacetyl) Peptides," Bioconjug. Chem., 6, 573-5772
	D2	Beven et al. (1997), "Effects on Mollicutes (Wall-less Bacteria) of Synthetic Peptides Comprising a Signal Peptide or a Membrane Fusion Peptide, and a Nuclear Localization Sequence (NLS) - A Comparison with Melittin," Biochim. Biophys. Acta, 1329, 357-369

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	D4	Briggs and Gierasch (1986), "Molecular Mechanisms of Protein Secretion: The Role of the Signal Sequence," Adv. Prot. Chem. 38, 109-180
	D5	Brugidou et al. (1995), "The <i>Retro-Inverso</i> Form of a Homeobox-Derived Short Peptide is Rapidly Internalised by Cultured Neurones: A New Basis for an Efficient Intracellular Delivery System," Biochem. Biophys. Res. Commun., 214, 685-693
	D6	Chaloin et al. (1998), "Design of Carrier Peptide-Oligonucleotide Conjugates with Rapid Membrane Translocation and Nuclear Localization Properties," Biochem. Biophys. Res. Commun., 243, 601-608
	D7	Chaloin et al. (1997), "Synthetic Peptides as Carriers for Cellular Import of Drugs," Lett. Pept. Sci., 4, 231-234
	D8	Chaloin et al. (1997), "Conformations of Primary Amphipathic Carrier Peptides in Membrane Mimicking Environments," Biochemistry, 36, 11179-11187
	D9	Chaloin et al. (1998), "Ionic Channels Formed by a Primary Amphipathic Peptide Containing a Signal Peptide and a Nuclear Localization Sequence," Biochim Biophys. Acta, 1375, 52-60
	D10	Chen et al. (1999), "Selective Killing of Transformed Cells by Cyclin/Cyclin-Dependent Kinase 2 Antagonists," Proc. Natl. Acad. Sci. USA, 96:4325-4329
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	D12	Derossi et al., (1996), "Cell Internalization of the Third Helix of the Antennapedia Homeodomain is Receptor-Independent," J. Biol. Chem., 271, 18188-18193
	D13	Dingwall, C. and Laskey, R. (1992), "The Nuclear Membrane," Science, 258, 942-947
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	D17	Goldfarb et al., (1986), "Synthetic Peptides as Nuclear Localization Signals," Nature (London), 322, 641-644
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	D23	Méry et al. (1993), "Disulfide Linkage to Polyacrylic Resin for Automated Fmoc Peptide Synthesis," <i>Int. J. Peptide Prot. Res.</i> , 42, 44-52
	D24	Morris et al. (1997), "A New Peptide Vector for Efficient Delivery of Oligonucleotides into Mammalian Cells," <i>Nucleic Acids Res.</i> , 25, 2730-2736
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	D29	Morris et al. (2001), "A Peptide Carrier for the Delivery of Biologically Active Proteins Into Mammalian Cells," <i>Nature Biotech.</i> 19, 1173-1176
	D30	Niidome et al. (1997), "Binding of Cationic $\alpha$ -Helical Peptides to Plasmid DNA and Their Gene Transfer Abilities Into Cells," <i>J. Biol. Chem.</i> , 272, 15307-15312
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	D32	Phelan et al. (1998), "Intercellular Delivery of Functional p53 by the Herpesvirus Protein VP22," <i>Nat. Biotechnol.</i> , 16:440-443
	D33	Prabhakaran, "The Distribution of Physical, Chemical, and Conformational Properties in Signal and Nascent Peptides," <i>Biochem. J.</i> (1990) 269:691-696
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	D43	Wyman et al. (1997), "Design, Synthesis, and Characterization of a Cationic Peptide that Binds to Nucleic Acids and Permeabilizes Bilayers," Biochemistry, 36, 3008-3017

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